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**CERTIFIED MILL TEST REPORT**

LOG NO. F00000000033994

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**BONNEY FORGE CORPORATION**

P.O. BOX 330 • 14496 CROGHAN PIKE • MOUNT UNION, PA 17066-0330

(814) 542-2545 • (800) 345-7546 • FAX (814) 542-4906

www.bonneyforge.com

**CUSTOMER:** PLESA ANAHUAC Y CIAS., S.A. DE C.V.

**DATE** 09/13/2012


**CUSTOMER  
ORDER NO.:** 13733

**BONNEY ORDER NO.** B000127625

**SHIP TO:** AMERICAN DISPATCH  
302 QUIVIRA DR  
MODERN INDUSTRIAL PARK  
LAREDO TX 78045

ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
1	50	58708	3/4 3000 A105 45EL T SA/A105 Al 0.021 C 0.201 Co 0.003 Cr 0.060 Cu 0.090 Mn 1.020 Mo 0.013 N 0.004 Nb 0.015 Ni 0.030 P 0.007 S 0.020 Si 0.170 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 79,298 Y/S(PSI) 51,254 EL(%) 30.25 RA(%) 63.04 Brinell 153 BHN 153 BHN
2	20	58580	3/4 3000 HOT-DIP 45EL T SA/A105 Al 0.026 C 0.210 Co 0.003 Cr 0.040 Cu 0.050 Mn 1.010 Mo 0.000 N 0.004 Nb 0.015 Ni 0.020 P 0.009 S 0.022 Si 0.210 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 79,277 Y/S(PSI) 50,624 EL(%) 33.90 RA(%) 62.56 Brinell 153 BHN 147 BHN
3	50	58801	1/2 3000 A105 90EL T SA/A105 Al 0.021 C 0.213 Co 0.003 Cr 0.040 Cu 0.070 Mn 1.060 Mo 0.005 N 0.002 Nb 0.014 Ni 0.020 P 0.012 S 0.018 Si 0.210 V 0.004 CE(Long Formula) = 0.41 T/S(PSI) 77,997 Y/S(PSI) 51,245 EL(%) 29.85 RA(%) 63.76 Brinell 141 BHN 147 BHN
4	100	58769	2 3000 A105 90EL T SA/A105 Al 0.022 C 0.211 Co 0.002 Cr 0.030 Cu 0.040 Mn 1.030 Mo 0.007 N 0.004 Nb 0.016 Ni 0.020 P 0.004 S 0.019 Si 0.250 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 75,166 Y/S(PSI) 48,817 EL(%) 32.35 RA(%) 61.09 Brinell 137 BHN 137 BHN

We certify that the data on this sheet is a true copy taken from our records of material furnished us by the production mill, or as obtained by additional laboratory checks.

by 

Kylee Ruiz  
**QUALITY PROCESS MANAGER**

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5	150	58762	3/4 3000 A105 90EL T SA/A105 Al 0.028 C 0.196 Co 0.005 Cr 0.030 Cu 0.060 Mn 1.050 Mo 0.004 N 0.003 Nb 0.014 Ni 0.020 P 0.005 S 0.020 Si 0.180 V 0.004 CE(Long Formula) = 0.38 T/S(PSI) 78,000 Y/S(PSI) 48,300 EL(%) 28.00 RA(%) 63.00 Brinell 156 BHN 156 BHN
6	100	58711	1/2 3000 A105 TEE T SA/A105 Al 0.021 C 0.207 Co 0.003 Cr 0.030 Cu 0.070 Mn 1.010 Mo 0.004 N 0.004 Nb 0.014 Ni 0.020 P 0.006 S 0.020 Si 0.200 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 76,111 Y/S(PSI) 50,301 EL(%) 32.35 RA(%) 62.07 Brinell 139 BHN 137 BHN
7	100	58624	3/4 3000 A105 TEE T SA/A105 Al 0.020 C 0.207 Co 0.003 Cr 0.070 Cu 0.070 Mn 0.990 Mo 0.005 N 0.003 Nb 0.012 Ni 0.020 P 0.008 S 0.020 Si 0.220 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 75,507 Y/S(PSI) 49,303 EL(%) 30.00 RA(%) 63.28 Brinell 141 BHN 141 BHN
8	30	58809	1 3000 HOT-DIP TEE T SA/A105 Al 0.023 C 0.206 Co 0.003 Cr 0.050 Cu 0.070 Mn 1.050 Mo 0.009 N 0.004 Nb 0.015 Ni 0.020 P 0.007 S 0.018 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 80,486 Y/S(PSI) 51,874 EL(%) 28.85 RA(%) 60.60 Brinell 150 BHN 150 BHN

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
9	40	58711	1/2 3000 HOT-DIP TEE T SA/A105 Al 0.021 C 0.207 Co 0.003 Cr 0.030 Cu 0.070 Mn 1.010 Mo 0.004 N 0.004 Nb 0.014 Ni 0.020 P 0.006 S 0.020 Si 0.200 V 0.003 CE(Long Formula) = 0.39 T/S(PSI) 76,111 Y/S(PSI) 50,301 EL(%) 32.35 RA(%) 62.07 Brinell 139 BHN 137 BHN
10	8	58741	2 3000 HOT-DIP TEE T SA/A105 Al 0.025 C 0.196 Co 0.004 Cr 0.070 Cu 0.150 Mn 1.020 Mo 0.010 N 0.004 Nb 0.012 Ni 0.050 P 0.007 S 0.019 Si 0.190 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 78,539 Y/S(PSI) 49,815 EL(%) 33.45 RA(%) 58.09 Brinell 144 BHN 153 BHN
10	42	58741	2 3000 HOT-DIP TEE T SA/A105 Al 0.025 C 0.196 Co 0.004 Cr 0.070 Cu 0.150 Mn 1.020 Mo 0.010 N 0.004 Nb 0.012 Ni 0.050 P 0.007 S 0.019 Si 0.190 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 78,539 Y/S(PSI) 49,815 EL(%) 33.45 RA(%) 58.09 Brinell 144 BHN 153 BHN
		57899	2 3000 HOT-DIP TEE T SA/A105 Al 0.032 C 0.200 Co 0.002 Cr 0.020 Cu 0.100 Mn 1.040 Mo 0.000 Nb 0.015 Ni 0.020 P 0.007 S 0.023 Si 0.240 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 78,125 Y/S(PSI) 52,250 EL(%) 26.40 RA(%) 57.25 Brinell 135 BHN 135 BHN

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ITEM	QUANTITY	LOT NO.	GRADE OR SPECIFICATION NO. CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:
		57999	2 3000 HOT-DIP TEE T SA/A105 Al 0.024 C 0.200 Cb 0.015 Co 0.004 Cr 0.030 Cu 0.110 Mn 1.020 Mo 0.010 Ni 0.030 P 0.008 S 0.020 Si 0.210 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 76,250 Y/S(PSI) 48,750 EL(%) 32.00 RA(%) 61.05 Brinell 139 BHN 139 BHN
11	20	58705	1/2 6000 A105 TEE T SA/A105 Al 0.023 C 0.212 Co 0.003 Cr 0.060 Cu 0.060 Mn 0.990 Mo 0.004 N 0.005 Nb 0.015 Ni 0.020 P 0.013 S 0.019 Si 0.230 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 78,286 Y/S(PSI) 50,729 EL(%) 30.30 RA(%) 63.52 Brinell 144 BHN 150 BHN
12	10	58602	3/4 6000 A105 TEE T SA/A105 Al 0.021 C 0.200 Co 0.000 Cr 0.040 Cu 0.090 Mn 1.010 Mo 0.010 N 0.005 Nb 0.015 Ni 0.040 P 0.007 S 0.020 Si 0.220 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 77,857 Y/S(PSI) 50,378 EL(%) 32.20 RA(%) 61.53 Brinell 153 BHN 153 BHN
13	50	58651	11/2X11/2X 1 3000 A105 TEE T SA/A105 Al 0.025 C 0.210 Co 0.003 Cr 0.040 Cu 0.120 Mn 1.040 Mo 0.000 N 0.003 Nb 0.014 Ni 0.020 P 0.006 S 0.021 Si 0.200 V 0.003 CE(Long Formula) = 0.40 T/S(PSI) 74,580 Y/S(PSI) 50,986 EL(%) 32.05 RA(%) 63.04 Brinell 139 BHN 141 BHN

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14	20	58736	11/2X11/2X 1/2 3M A105 TEE T SA/A105 Al 0.025 C 0.208 Co 0.004 Cr 0.050 Cu 0.160 Mn 1.030 Mo 0.013 N 0.005 Nb 0.013 Ni 0.060 P 0.007 S 0.021 Si 0.200 V 0.003 CE(Long Formula) = 0.41 T/S(PSI) 78,380 Y/S(PSI) 48,930 EL(%) 33.05 RA(%) 61.09 Brinell 141 BHN 141 BHN
15	50	58757	1 X1 X 3/4 3000 A105 TEE S SA/A105 Al 0.027 C 0.199 Co 0.004 Cr 0.040 Cu 0.090 Mn 1.030 Mo 0.006 Nb 0.013 Ni 0.020 P 0.006 S 0.018 Si 0.190 V 0.004 CE(Long Formula) = 0.39 T/S(PSI) 76,595 Y/S(PSI) 49,741 EL(%) 34.15 RA(%) 63.52 Brinell 139 BHN 139 BHN
16	20	58557	11/2X11/2X 3/4 3M A105 TEE S SA/A105 Al 0.028 C 0.210 Co 0.003 Cr 0.040 Cu 0.070 Mn 1.030 Mo 0.010 N 0.003 Nb 0.015 Ni 0.020 P 0.005 S 0.018 Si 0.190 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 81,418 Y/S(PSI) 51,333 EL(%) 31.05 RA(%) 60.10 Brinell 150 BHN 150 BHN
17	20	58780	2 6000 A105 TEE S SA/A105 Al 0.025 C 0.212 Co 0.003 Cr 0.040 Cu 0.070 Mn 1.050 Mo 0.008 N 0.003 Nb 0.013 Ni 0.020 P 0.006 S 0.019 Si 0.220 V 0.004 CE(Long Formula) = 0.40 T/S(PSI) 80,850 Y/S(PSI) 49,682 EL(%) 31.35 RA(%) 62.07 Brinell 147 BHN 144 BHN

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MODERN INDUSTRIAL PARK  
LAREDO TX 78045

**ITEM QUANTITY LOT NO.**

**GRADE OR SPECIFICATION NO.  
CHEMICAL ANALYSIS, PHYSICAL PROPERTIES, REMARKS:**

1. THE FITTINGS SUPPLIED ARE IN ACCORDANCE WITH PURCHASE ORDER SPECIFICATIONS.
2. THE MATERIAL SUPPLIED MEETS THE REQUIREMENTS OF NACE MRO175/ISO 15156-2.
3. CERTIFYING ASTM A105-10 / ASME SA105-10 EDITION.
4. THE PRODUCT SUPPLIED WAS INSPECTED IN ACCORDANCE WITH EN 10204:2004 EDITION TYPE 3.1 INSPECTION DOCUMENT. (EUROPEAN STANDARD)
5. ELONGATION TEST RESULTS ARE OBTAINED USING STANDARD ROUND SPECIMEN, 2 INCH OR 50 MM GAGE LENGTH.

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**CMTR: REV2**